

## SENIORS DISCUSS CLASS DAY

**Provision Made for the  
Election of Class Day  
Officials**

### INSTITUTE COMMITTEE

**Constitution Adopted—Class Gift  
to be Made to  
Union**

Less than fifty members were present at the 1909 class meeting Monday noon in Huntington Hall. Various matters relating to class day were discussed, and the constitution of the Institute Committee, already adopted by the three lower classes, was ratified insofar as it does not conflict with the class constitution.

Arrangements were made for the election of the class day officials. President J. H. Critchett was authorized to appoint a committee of five to serve as election officers, and it was voted that the entire class be placed on the ballot. The twenty-five men receiving the highest number of votes will then constitute the class day committee. The three highest will act as marshals, and the highest of all as chief marshal.

The matter of a class gift was talked over informally. It was decided that the gift of whatever sort should be for the Union, and that the class day committee be authorized to choose it.

## SOCIETY OF ARTS

**Dr. Woodward Will Speak on The  
Carnegie Institution**

Dr. Robert S. Woodward, President of the Carnegie Institution, of Washington, D. C., will describe the foundation of the institution by Andrew Carnegie, at the 660th meeting of the Society of Arts, to be held at 8 P. M., in Huntington Hall, on Thursday, March 25th. Dr. Woodward will also describe the organization and purposes of his institution, and the various lines of investigation which are being carried on under its direction. These include researches in widely varied fields of pure and applied science—in economics and sociology, history and archaeology, experimental evolution, marine biology, plant life, nutrition, geophysics, terrestrial magnetism, meridian astronomy, and solar physics. Among the problems which have attracted much popular attention may be mentioned the studies of Luther Burbank in producing new and valuable varieties of fruit, and the investigations of the desert laboratory in studying the forms of vegetation best adapted to arid regions. Dr. Woodward will doubtless throw much light on the great work along research lines that the Carnegie Institution is doing, about which the general public knows comparatively little.

## C. E. SOCIETY

**Metcalf to Speak on Contract  
Versus Day Labor**

At the meeting of the Civil Engineering Society at 4.15 this afternoon in 11 Eng. B., Mr. Leonard Metcalf, of the firm of Metcalf and Eddy, consulting engineers, Boston, will speak on "The relative of economy of contract work as compared with day labor work in the light of investigations made for the Boston Finance Commission." Mr. Metcalf is an Institute alumnus, graduating in 1892, and the large part which he played in the recent investigation of Boston's municipal affairs, together with the wide experience which he has had as a sanitary and consulting engineer, should make his talk of the greatest value and interest.

(Continued on page 2.)

## COURSE I AND XI THESES ASSIGNED

**Valuable Data Collected in  
Reinforced Concrete  
Experiments**

### COMPREHENSIVE WORK

**Bridge, Water Power, Building  
and Sanitary Investigations  
of Great Value**

The range of subjects of theses for Courses I and XI is very large. It is especially interesting to note the large number of men who have chosen reinforced concrete as a subject for investigation. The great increase in the use and application of cement and concrete construction in the last few years has been exceedingly rapid, and makes this class of data very valuable. Nearly every branch of constructional work, where concrete and cement can be used, is being investigated, i. e., failures in concrete beams, bridge and building construction, foundations and piles, reservoir and dam construction.

A number of theses are already completed, and the majority are well under way; all data having been collected. The complete list of the theses follows:

Ballard and Elton—Study of Failures in Reinforced Concrete. Batchelder and Dwight—Design for Sewage System for Reading Mass. Bowman and Brooks—Experiments upon Flow Through Short Pipes and Elbows. Campbell and Lovell—Investigation of Water Supply for City Fire Protection. Clapper and Crawford—Design of Plate Girder Draw Bridges. Clark—Tests on Bend of Steel in Concrete. Clifford—Design of a Reinforced Building. Congdon—Reinforced Concrete Design. Desmond—Study of Adaptability and Methods of Driving Concrete Piles. Dort and Faulkner—Experimental Determination of Co-efficient of Short Tube Floats. Freed and Fuller—Study in Failures of Foundations. Gaynor—Glusione River Dam. Gilkison and Millard—Test of Reinforced Concrete Beams. Green and Matte—Elimination of Grade Crossings at Stony Brook Mass. Grunsky—Design of Masonry Dams and Arches. Nicholson—Design of Highway Bridge. Howland—Design of Bridge. Kelley—Design of Reinforced Cement Reservoir. Lawrence—Roller Lift Bridge at North Station. Lazenley—Design of Reinforced Concrete Arch. Lenox—Study of Practicability of Enlarging Water Supply of Lynn with Water from Ipswich River. McCain and Nisbet—Rating of Hydraulic Meters of M. I. T. McCarthy—Development of Water Power at Fitchburg. Merrill—Estimate of Cost to Extend and Improve B. R. B. and L. R. R. Parker and Pepper—Study of Development of Water Power at Westfield River. Radford and York—Experimental Determination of Co-efficient of Friction in Opening of Sluice Gates of Charles River Dam. Rew and Bender—Study of Water Power in Mains. Rice—Design of Draw Bridge Over Neponset River at Neponset. Serra—Design of Reinforced Concrete Buildings. Shaw—Concrete Locks. Towne—Water Power at Bare Falls Mass. White—Some Mechanical Methods of Improving Liquefaction in Septic Tanks. Williams—Reinforced Concrete Design. Finch—Test of Humphry Turbine. Gilbert—Use of Recording Thermometers and Hygrometers in Tests and Control of Ventilation. Harrier—Organic Growth in Charles River Basin. Mitchell—Auxiliary Water Supply for Hartford, Conn. Morrill—Design and Construction of Experimental Sewage Filtration Systems. Turner—Tests of Steel Angles.

Mr. John Spurrel, who has been an assistant in the mining department for the past eight years, leaves tomorrow for Placerville, Calif.

## FENCERS WILL GO TO NEW YORK

**Institute Team Will Enter  
Preliminaries There  
Next Friday**

### WILL LEAVE THURSDAY

**West Point, Pennsylvania, Cornell,  
Yale also Entered—Finals  
Come Saturday**

Tomorrow the fencing team leaves Back Bay at 6.04 P. M. for New York, to participate in the intercollegiate meet to be held there Friday and Saturday.

Six teams are eligible to fence for the championship: West Point, Annapolis, Cornell, Yale, Pennsylvania, and Tech.

Technology will be represented in the Intercollegiate fencing championships at New York by Grubman 1909, capt., Loring 1909, Knox 1910, Manager Chapin 1910, and Coach Fournon.



E. M. Loring 1909

The preliminaries, in which two teams are eliminated, take place on Friday, in the "Turn Verein," and are carried on in a somewhat curious way. The members of each team are numbered 1, 2 or 3; No. 1 faces all the other number ones, No. 2 the twos, etc. Those two teams having the least number of points in their favor are dropped.

In the finals, which are fought on Saturday at the 84th St. Armory, the four remaining teams fence what is called a "Round Robin," that is, each member of each team fences all the others.

Tech's chances of winning seem very favorable. Two of the other five teams, Yale and Penn., have been beaten. Penn. has beaten the Army, and has defeated Cornell once. Cornell, on the other hand, has beaten Penn. once, so it would seem that these two teams were evenly matched.

The Cornell fencers are noted for their strong attack. The Army and Navy are perhaps the most carefully trained of all the teams, and although they may not show up well at first, always have a faculty of finishing strong. During the last few years the intercollegiate championship has fallen to one of these latter two.

The Technology Club held a smoke talk at the Club rooms last night. Mr. A. A. Merrill gave an illustrated talk on the theory and practice of flying.

## HOCKEY SEASON VERY SUCCESSFUL

**Team Loses but Three  
Games, Outscoring  
Opponents**

### TO ELECT CAPTAIN

**Team to Meet Saturday for This—  
Billings Manager for  
Next Season**

Prospects for a champion hockey team for next year are extremely bright, as all of the men but two who made this year's successful team will be back at the Institute. The schedule has not yet been arranged, as it is necessary to wait until the schedule of the Intercollegiate Hockey League has been announced before games can be arranged with members of that league. However, with the fine record of the team the last two seasons, Manager H. D. Billings 1910, should have no trouble in arranging a good schedule for next season.

The season that just closed was one of the most successful in the history of the Institute, the team having gone through the season with a record of four games won, one tie game, and three games lost. The record for the season follows: Technology 2-Dartmouth 1; Technology 0-Harvard 1; Technology 1-Crescent A. C. 2; Technology 3-Andover 0; Technology 3-Brown 0; Technology 1-Williams 3; Technology 1-M. A. C. 0; Technology 1-Amherst 1. Total, Technology 12—Opponents 8. The game with Harvard, this year's winner in the Intercollegiate Hockey League, was lost on a fluke, and the score should have been 0-0, if it represented the merits of the two teams. Dartmouth, however, who had a very fast team, which finished second in the I. H. L., was defeated. On this showing, our team is certainly entitled to a high ranking in intercollegiate hockey.

The men that composed the team this year were: W. J. Kelley 1909; J. F. Davis 1909; H. W. Paine 1909; W. J. O'Hearn 1910; H. D. Billings 1910; A. A. Gould 1910; P. W. Taylor 1910; R. H. Gould 1911; D. C. Bakewell 1911, and V. G. Sloan 1912. All of these men, with the exception of Davis, will be back next year, and, with a veteran line-up, the team should be able to give a good account of itself.

The captain for next season has not yet been chosen, but the election will be held at a meeting of the team in the Union at one o'clock Saturday, March 27th. W. J. O'Hearn and A. A. Gould are the next prominent candidates, and one of them is quite certain to be next year's captain.

Ballots were mailed last night to the 191 men entitled to vote for the 1911 Technique electoral committee. The polls will close next Monday at 4 P. M.

A vacancy exists in the 1911 representation on the Athletic Association and will be filled immediately by election. All nominations must be signed by ten men and handed in before Saturday.

## CALENDAR

WEDNESDAY, MARCH 24.

4.00 P. M. Show Rehearsal.  
4.15 P. M. Civil Engineering Meeting.  
5.15 P. M. Dining Room Committee Meeting, Room A.  
8.00 P. M. Chemical Engineering Society at the Union.

THURSDAY, MARCH 25.

1.00 P. M. T. P. A. Meeting in Room A.  
3.00 P. M. Cross-country men re-out at Field.  
8.00 P. M. Society of Arts, Huntington Hall.

## THE TECH

Published every Monday, Wednesday, and Friday during the college year by students of the Massachusetts Institute of Technology.

Entered as second-class matter October 6, 1904, at the post office at Boston, Mass., under the Act of Congress of March 3, 1879.

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Subscriptions within the Boston Postal District and outside of United States must be accompanied by postage at the rate of one cent for each copy.

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Single Copies 3 Cents.

Printed by Old Colony Press, Boston.

Wednesday, March 24, 1909.

No Providence trip.

How many points are you carrying?

The hockey team, too, has helped to make this the Institute's year in athletics. It is now up to the track team.

The best fencing trio that Technology has had for some years is off to New York to make a manly stab for the intercollegiate championship. May it meet with the best of success.

There are many commendable features about the plan of raising money for the support of athletics by means of the sale of season tickets recently approved by the A. A. and referred to the Advisory Council. The method has been very generally adopted by colleges and universities throughout the country, and the results in almost every case have been good.

It is expected that the new scheme will result in the large increase in attendance at the athletic games. Hence it promises to save money to the individual while the income to the A. A. should be larger than ever before.

Also, the various athletic interests will be centralized to a greater extent than has formerly been the case, and no longer exist as a combination of independent associations.

The students will not be bothered from one end of the year to the other by a large number of men seeking to sell tickets to contests. At the same time the field will be covered much more thoroughly and effectively. The scheme merits the support of the Institute.

During the past month the dining-room committee has received only indirect criticisms and suggestions. It does the dining room no good, nor does it help the committee in its work for the teachers and students to growl among themselves. The only effective plan to follow is to kick directly to the committee. In order that everyone can make suggestions, a committee mail box has been placed at the door of the dining-room. The committee hopes that teachers and students will make proper use of this box.

If John's dinner isn't up to par, he has stomachache; if it is very good, he over-indulges, and is again in the same predicament. If Mary's frock is too simple, she can't appear creditably in it; if it is thoroughly a la mode, she dare not don it for fear of its ruination. Finally, if one display an indifferent poster on the bulletin boards, no one sees it; and if one tack up an effective one, again no one sees it (for more than six hours). The bulletin board committee has put a maximum time limit on the duration of exhibition of posters, but it should be noted by all in general, and some one in particular, that to date no minimum time limit has been decreed.

## COMMUNICATION

After the splendid work of the Gym team this year, is it not right that in future they shall be recognized by the Institute, and awarded their T. G. T.?

If the Institute considers physical development important enough to need a physical director, and an assistant, and to require physical exercise of the freshmen, should it not take an especial interest in the ultimate result of all this preliminary work—the producing of good gymnasts, who must necessarily be well developed men?

Harvard, Yale, Amherst, Exeter, Trinity, Columbia, Rutgers, and a large number of small colleges have a gym team, and award their insignia to the members, so Tech will have no trouble in arranging meets.

Next year's team will be strong in everything, except the horse, which will be weakened by the loss of R. L. Carey, and ought to turn out a winning team.

Gym team work is the best possible aid to track athletics. Our crack pole vaulters have been gymnasts. Tommy Orr and Schobinger were members of the team, and Allen holds the present pole vault record. If for no other reason than this, the gym team ought to be recognized.

All the team needs to give the men an incentive in their work, is recognition from the Institute in the form of a T. G. T.

H. S. GOTT.

### C. E. SOCIETY

(Continued from page 1.)

On April 7 the Society hopes to hold a dinner, although no definite arrangements have been made as yet. Wednesday, April 28, at 4.15, a joint meeting with the Architectural Society will be held at which Mr. Frederick S. Greene, Vice-President of The Waterproofing Company of New York, will give an illustrated talk on "Waterproofing." On May 5 comes the annual dinner of the Society, probably at the American House, at which it is expected that Prof. Spofford, now of the Brooklyn Polytechnic Institute and recently elected Hayward professor of civil engineering at Technology, will speak. Mr. T. E. Byrnes, Vice-President of the New York, New Haven & Hartford Railroad, is also expected to be present, together with one or two other speakers, and address the Society.

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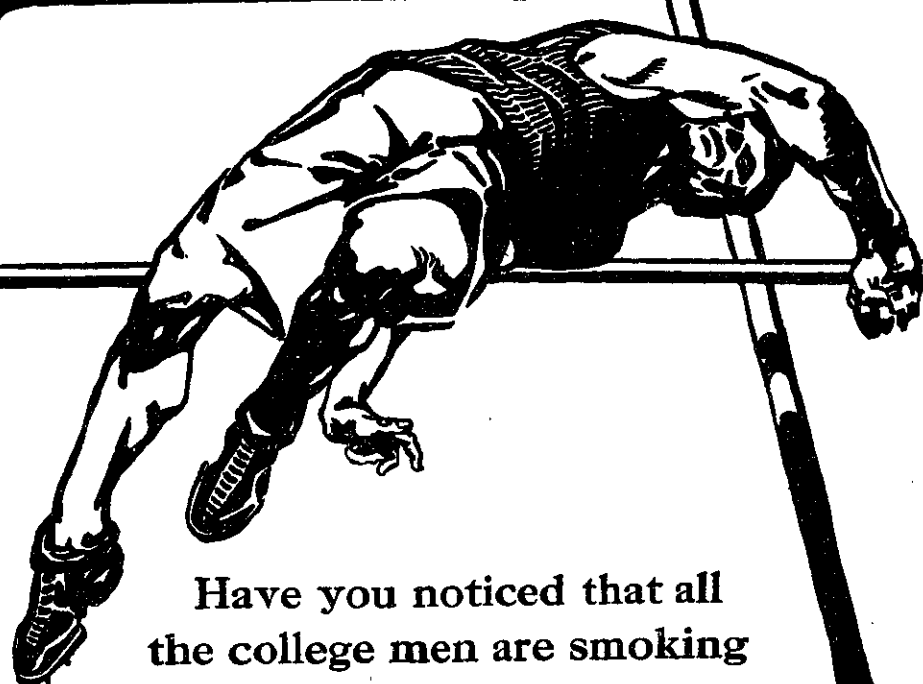
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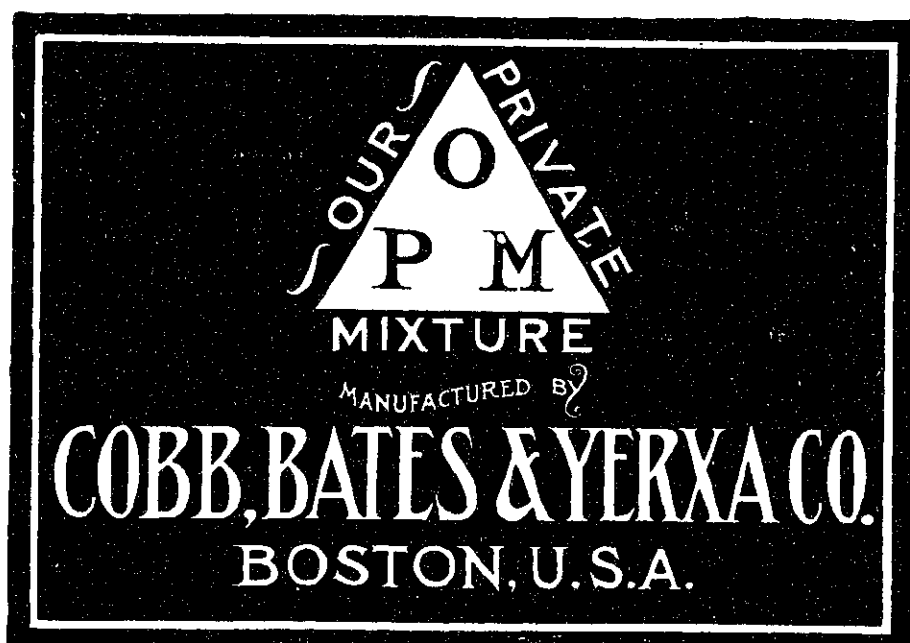
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An American-Scandinavian Society has been formed in Boston to promote cultural intercourse between America and Sweden, Norway, Denmark and Finland. This will be accomplished by visits and exchanges of professors and students of the colleges of the respective countries. A meeting of the Society was held here.

### LANGENBECK TO SPEAK

Dr. Langenbeck will address the Chemical Society this evening, at the Union, at eight o'clock, on "Ceramics." Dr. Langenbeck is an authority on all matters concerning clay products. He has studied in Germany, at both Zurich and Berlin. He was formerly superintendent of Rookwood Pottery, Cincinnati, and is the originator of "Rookwood" faience and aventurine glazes. He has been the consulting chemist and manager of several potteries, tile and mosaic works.

Owing to his extensive knowledge of the subject, Dr. Langenbeck's talk promises to be most instructive, and the subject is one which should be of interest to everyone.

### DATES FOR SHOW SET

Matinees at Hollis Street April 20 and 22—No Performance at Providence.

This year's Show will have two performances outside of Boston, one in Northampton and one in Malden. The schedule is arranged as follows:

April 19—Evening performance at Academy of Music, Northampton.

April 20—Matinee at Hollis St. Theatre, Boston.

April 22—Matinee at Hollis St. Theatre, Boston.

April 22—Evening performance at Malden.

A number of fellows have signified their intention of going to Northampton to witness the performance there, and incidentally, to see a few friends at Smith College. A good time is assured all who take the trip with the show. Application blanks for seats will be in the hands of all members of the Institute on Monday.

This year's sale of posters was certainly a record-breaking one. The first lot of 500 posters have nearly been disposed of, although they have been on sale less than a week.

### FACULTY NOTICES

FIRST YEAR ENGLISH—Mr. Colleser's Wednesday section will not meet today. The assigned written work should be brought to class on Friday. M24

The list of probable candidates for graduation the present year has been presented to the Faculty, and all persons whose names are on it have been notified individually. The list cannot now be changed, except by vote of the Faculty, and any student expecting to be recommended for the degree the present year should consult the Secretary of the Faculty as soon as possible, if he has not been notified that his name is on the list.

CONFERENCES IN MODERN LANGUAGES.—This schedule went into effect Monday, the 22nd of March:

French II.

Professor Bigelow—Wednesdays from 12 to 1, and Thursdays from 10 to 11, in Room 31 Lowell.

Mr. Blachstein—Tuesdays and Thursdays from 10 to 11 in Room 22 Lowell.

Mr. Dike—Mondays from 4 to 5, and Saturdays from 11 to 12, in Room 23 Lowell.

German II.

Professor Vogel—Tuesdays from 10 to 12; Thursdays from 4 to 5, and Saturdays from 10 to 12, in Room 33 Lowell.

Dr. Kurrenmeier—Fridays from 12 to 2 in Room 31 Lowell.

Mr. Meister—Wednesdays from 11 to 12, in Room 21 Lowell.

Any student taking either French II or German II may be admitted to any conference on that subject, on consultation with the instructor conducting it.

RECITATIONS IN ITALIAN.—Wednesdays from 11 to 12, and Saturdays from 9 to 10, in Room 23 Lowell. Mr. Dike, instructor. Monday exercises discontinued.

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 OF TECHNOLOGY  
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 PUBLISHED BY THE ALUMNI  
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83 NEWBURY STREET, BOSTON

The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of technological education and the responsibilities of the professional man.

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## SUBMARINE LECTURES

Two lectures on submarines will be given by Mr. Mason S. Chace 1894, in 8 Eng. C. at 12 M. Friday, and at 10 A. M. next Tuesday. Since his graduation from Course II of the Institute, Mr. Chace has graduated from the Ecole d'Application du Genie Maritime, and has had considerable practical experience. Students in Courses XIII and XIIIa are requested to be present.

## NOTICES

**HOCKEY TEAM**—Meeting in Union at 1 P. M. Saturday. Election of captain for next year. M26

**CROSS COUNTRY**—All Freshmen and Sophomore cross country men report at Teen field, 3 to 6. Thursday. M24

**SOCIETY OF ARTS**—Thursday at 8 P. M. Dr. Robert Woodward speaks on the "Carnegie Foundation." M24

1912—Base ball candidates out for practise at the Field Thursday. Candidates for battery must report now.

**CIVIL ENGINEERING SOCIETY**—Meeting in 11 Eng. B today at 4.15. Leonard Metcalf will speak.

**MINING ENGINEERING SOCIETY**—Meeting Thursday at 7.45 in 11 Pierce. A. E. Burt 1909, will speak. All members of the three under classes of Course III are requested to be present.

1911 **TECHNIQUE**—Any men entitled to 1911 Technique Electoral Ballots, and failing to receive them, communicate with the committee through the Cage.

Nominations for a new 1911 representative on the A. A. may be left at the Cage until Saturday. M26

**WANTED**—The Tech needs more men on its business staff, and has accordingly instituted a new campaign for candidates. All men interested will meet the business manager in The Tech office at the Union at 4 P. M. on Friday. There is no limitation to the size of the business staff, and all men who show themselves capable will be given a place on the paper. M26

## CLASSIFIED ADS

Advertisements under this head are inserted at the rate of five cents a line of six words, payable in advance, and copy should be handed to the business manager the morning before publication day.

**FOUND**—Top to style pen. Owner may obtain same by applying to the Tech and paying charge for this advertisement.

Fountain pen found and left at the Bursar's office. Owner may obtain same by paying for this advertisement.

**LOST**—A small loose leaf note book, open at top, containing geology notes. Finder will please leave at Cage for George Maglott.

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